

CLAIMS

What is claimed is:

- 5        1. A dressing wheel suitable for dressing a grinding wheel surface to be used for maintaining a certain tolerance to assure reliability and quality control of ground parts during the grinding operation, comprising:  
a dressing wheel component including at least one interrupted cutting outer surface, wherein the interrupted cutting surface is embodied in a cutting wheel with a plurality of tips extending outwardly from the outer surface, wherein said plurality of tips contacts the grinding wheel during the grinding operation, thereby alleviating glazing and heat expansion of the grinding wheel while being dressed.
- 10      2. The dressing wheel suitable for dressing a grinding wheel surface of claim 1, further comprising at least one additional dressing wheel component including at least one flat grinding surface adjacent to the interrupted cutting outer surface, said grinding surface being suitable for dressing a grinding wheel.
- 15      3. The dressing wheel suitable for dressing a grinding wheel surface of claim 1, further comprising at least two additional dressing wheel components including flat grinding surfaces adjacent to, and surrounding, the interrupted cutting outer surface, said grinding surface being suitable for dressing a grinding wheel.
- 20      4. The dressing wheel suitable for dressing a grinding wheel surface of claim 1, wherein the interrupted cutting surface may be selected from the group consisting of stainless steel of any grade, cold rolled steel, copper, brass, and combinations thereof.
- 25      5. The dressing wheel suitable for dressing a grinding wheel surface of claim 1, wherein the interrupted cutting surface dressing wheel components includes multiple star-shaped components sandwiched between ceramic dressing wheel materials.
- 30      6. The dressing wheel suitable for dressing a grinding wheel surface of claim 2, wherein the at least one flat grinding surface is selected from the group consisting of diamond, borazon, silicon carbide, silicon nitride, silicon oxynitride, silicon carbonitride, boron

carbide, tungsten carbide, titanium carbide, aluminum oxide, aluminum nitride, aluminum carbide, and any combination thereof.

7. The dressing wheel suitable for dressing a grinding wheel surface of  
5 claim 3, wherein the at least two flat grinding surfaces are selected from the group consisting of diamond, borazon, silicon carbide, silicon nitride, silicon oxynitride, silicon carbonitride, boron carbide, tungsten carbide, titanium carbide, aluminum oxide, aluminum nitride, aluminum carbide, and any combination thereof.